CURRENT LISTING OF CLAIMS

- 1. (Previously presented) A method of classifying a population by drug responsiveness, comprising:
- (a) creating a multidimensional space of n dimensions, wherein n represents the number of different molecules being analyzed in a specimen from each individual in a population of individuals administered a drug and wherein said multidimensional space contains n axes, each of said axes relating to the expression level of a molecule of said n molecules, wherein n is 3 or more molecules;
- (b) determining a multidimensional coordinate point for each individual, wherein said multidimensional coordinate point is representative of the expression levels of said n molecules; and
- (c) determining a drug response-associated reference expression region of a group of individuals in said population using said multidimensional coordinate points, thereby classifying said group of individuals into a drug response reference population.
- 2. (Original) The method of claim 1, further comprising the step of correlating said group of individuals with a response to said drug.

Claim 3 (Canceled).

4. (Original) The method of claim 2, wherein said response is alleviation of a sign or symptom associated with a condition of an individual administered said drug.

Claims 5-7. (Canceled)

- 8. (Previously presented) The method of claim 1, wherein the expression levels of said molecules are determined by contacting said specimen with a target.
- 9. (Original) The method of claim 1, wherein said specimen is selected from the group consisting of leukocytes, blood, and serum.
 - 10. (Original) The method of claim 8, wherein said target is an array.

- 11. (Original) The method of claim 1, wherein said molecules in said specimen comprise nucleic acids.
 - 12. (Original) The method of claim 8, wherein said target comprises nucleic acid ligands.
- 13. (Original) The method of claim 1, wherein said molecules in said specimen comprise polypeptides.
 - 14. (Original) The method of claim 8, wherein said target comprises antibody ligands.
- 15. (Original) The method of claim 1, wherein said molecules in said specimen comprise small molecules.
- 16. (Previously presented) A method of classifying a population by drug responsiveness, comprising:
- (a) creating a multidimensional space of n dimensions, wherein n represents the number of different molecules being analyzed in a specimen comprising leukocytes from each individual in a population of individuals administered a drug and wherein said multidimensional space contains n axes, each of said axes relating to the expression level of a molecule of said n , molecules, wherein n is 3 or more molecules;
- (b) determining a multidimensional coordinate point for each individual, wherein said multidimensional coordinate point is representative of the expression levels of said n molecules; and
- (c) determining a drug response-associated reference expression region of a group of individuals in said population using said multidimensional coordinate points, thereby classifying said group of individuals into a drug response reference population.

Claims 17 - 43 (Canceled).

44. (Previously presented) The method of claim 16, further comprising the step of correlating said group of individuals with a response to said drug.

Claim 45 (Canceled).

46. (Previously presented) The method of claim 44, wherein said response is alleviation of a sign or symptom associated with a condition of an individual administered said drug.

Claim 47 (Canceled).

- 48. (Previously presented) The method of claim 16, wherein the expression levels of said molecules are determined by contacting said specimen with a target.
 - 49. (Previously presented) The method of claim 48, wherein said target is an array.
- 50. (Previously presented) The method of claim 16, wherein said molecules in said specimen comprise nucleic acids.
- 51. (Previously presented) The method of claim 48, wherein said target comprises nucleic acid ligands.
- 52. (Previously presented) The method of claim 16, wherein said molecules in said specimen comprise polypeptides.
- 53. (Previously presented) The method of claim 48, wherein said target comprises antibody ligands.
- 54. (Previously presented) The method of claim 16, wherein said molecules in said specimen comprise small molecules.

Claims 55 and 56 (Canceled).

- 57. (Previously presented) The method of claim 1, wherein n is 5 or more molecules.
- 58. (Previously presented) The method of claim 1, wherein n is 10 or more molecules.
- 59. (Previously presented) The method of claim 1, wherein n is 20 or more molecules.
- 60. (Previously presented) The method of claim 1, wherein n is 50 or more molecules.
- 61. (Previously presented) The method of claim 1, wherein n is 100 or more molecules.

- 62. (Previously presented) The method of claim 1, wherein n is 200 or more molecules.
- 63. (Previously presented) The method of claim 1, wherein n is 500 or more molecules.
- 64. (Previously presented) The method of claim 1, wherein n is 1000 or more molecules. Claim 65 (Canceled).
- 66. (Previously presented) The method of claim 16, wherein n is 5 or more molecules.
- 67. (Previously presented) The method of claim 16, wherein n is 10 or more molecules.
- 68. (Previously presented) The method of claim 16, wherein n is 20 or more molecules.
- 69. (Previously presented) The method of claim 16, wherein n is 50 or more molecules.
- 70. (Previously presented) The method of claim 16, wherein n is 100 or more molecules.
- 71. (Previously presented) The method of claim 16, wherein n is 200 or more molecules.
- 72. (Previously presented) The method of claim 16, wherein n is 500 or more molecules.
- 73. (Previously presented) The method of claim 16, wherein n is 1000 or more molecules.

Claims 74-83 (Canceled).